

| Ref # | Hits | Search Query  | DBs                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1    | 1090 | compress\$5 near8 (punctur\$5)  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:15 |
| L2    | 180  | compress\$5 near (punctur\$5)   | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:17 |
| L3    | 2    | "714"/\$.ccls. and compress\$5 near (punctur\$5)  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:16 |
| L4    | 3    | "455"/\$.ccls. and (compress\$5 near (punctur\$5))  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:19 |
| L5    | 0    | "375"/\$.ccls. and (compress\$5 near (punctur\$5))  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:20 |
| L6    | 972  | "375"/\$.ccls. and (run adj length adj (cod\$5 OR encod\$5))                              | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:21 |
| L7    | 0    | "375"/\$.ccls. and ((run adj length adj (cod\$5 OR encod\$5)) same (punctur\$5 adj mask)) | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:21 |
| L8    | 0    | "375"/\$.ccls. and ((run adj length adj (cod\$5 OR encod\$5)) same (punctur\$5 ))         | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:21 |
| L9    | 0    | "714"/\$.ccls. and ((run adj length adj (cod\$5 OR encod\$5)) same (punctur\$5 ))         | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:22 |
| L10   | 0    | "714"/\$.ccls. and ((punctur\$5 adj mask\$2) near5 stor\$5)                               | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:23 |
| L11   | 5    | "714"/\$.ccls. and ((punctur\$5 adj code\$2) near5 stor\$5)                               | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:26 |
| L12   | 0    | "714"/\$.ccls. and ((punctur\$5 adj bit\$2) near5 compress\$5)                            | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:27 |
| L13   | 0    | ((punctur\$5 adj bit\$2) near5 compress\$5)   | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:27 |
| L14   | 0    | ((punctur\$5 adj length\$2) near5 compress\$5)  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:27 |
| L15   | 0    | ((punctur\$5 adj code) near5 compress\$5)   | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:28 |
| L16   | 0    | ((punctur\$5 adj length) near5 compress\$5)   | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:28 |
| L17   | 0    | ((punctur\$5 adj mask) near5 compress\$5)   | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:28 |
| L18   | 2    | ((punctur\$5 adj pattern) near5 compress\$5)  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:29 |
| L19   | 0    | sto\$5 near (compress\$3 adj punctur\$5 adj pattern)                                      | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 13:29 |
| L20   | 13   | sto\$5 near (punctur\$5 adj pattern)  | US-PGPUB;<br>USPAT | OR               | ON      | 2005/01/08 14:15 |

|     |      |   |                 |    |    |                  |
|-----|------|---|-----------------|----|----|------------------|
| L21 | 0    | "714"/\$.ccls. and ((punctur\$5 adj pattern) same ("1000" adj bit)) | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:18 |
| L22 | 0    | "714"/\$.ccls. and ((punctur\$5 adj mask) same ("1000" adj bit))    | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:18 |
| L23 | 0    | ((punctur\$5 adj mask) same ("1000" adj bit))                       | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:18 |
| L24 | 0    | ((punctur\$5 adj pattern) same ("1000" adj bit))                    | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:18 |
| L25 | 253  | ((punctur\$5 adj pattern) same (bits))                              | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:18 |
| L26 | 124  | ((punctur\$5 adj pattern) near4 (bits))                             | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:19 |
| L27 | 36   | ((punctur\$5 adj pattern) near4 (bits)) and GSM                     | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:27 |
| L28 | 1    | "6614850".pn.   | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:29 |
| L29 | 1    | "6385752".pn.   | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:42 |
| L30 | 1    | "6693889".pn.   | US-PGPUB; USPAT | OR | ON | 2005/01/08 14:42 |
| S1  | 29   | 714/778.ccls.   | US-PGPUB; USPAT | OR | ON | 2003/11/05 14:59 |
| S2  | 0    | "714"/\$.ccls. and (differential adj punctur\$5)                    | US-PGPUB; USPAT | OR | ON | 2003/11/05 14:46 |
| S3  | 0    | "714"/\$.ccls. and (differential adj mask)                          | US-PGPUB; USPAT | OR | ON | 2003/11/05 14:47 |
| S4  | 3    | "714"/\$.ccls. and (puncture adj mask)                              | US-PGPUB; USPAT | OR | ON | 2005/01/06 11:46 |
| S5  | 0    | differential adj puncture adj mask                                  | US-PGPUB; USPAT | OR | ON | 2003/11/05 11:01 |
| S6  | 8    | puncture adj mask   | US-PGPUB; USPAT | OR | ON | 2003/11/05 14:43 |
| S7  | 1300 | differential adj encod\$5   | US-PGPUB; USPAT | OR | ON | 2003/11/05 15:45 |
| S8  | 17   | (differential adj encod\$5) and puncture                            | US-PGPUB; USPAT | OR | ON | 2003/11/05 11:09 |
| S9  | 1    | "6178194".pn.   | US-PGPUB; USPAT | OR | ON | 2003/11/05 13:29 |
| S10 | 1    | "6377809".pn.   | US-PGPUB; USPAT | OR | ON | 2003/11/05 13:30 |
| S11 | 0    | delayed adj puncture adj mask                                       | US-PGPUB; USPAT | OR | ON | 2003/11/05 14:44 |
| S12 | 0    | delayed near8 (puncture adj mask)                                   | US-PGPUB; USPAT | OR | ON | 2003/11/05 15:12 |

|     |     |  |                    |    |    |                  |
|-----|-----|--|--------------------|----|----|------------------|
| S13 | 15  | delayed near8 (puncture)                           | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:44 |
| S14 | 5   | "714"/\$.ccls. and (differential near8 punctur\$5) | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:46 |
| S15 | 4   | "714"/\$.ccls. and (differential near8 mask)       | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:47 |
| S16 | 0   | differential same (puncture adj mask)              | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:57 |
| S17 | 0   | (drop\$5) same (puncture adj mask)                 | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:57 |
| S18 | 229 | (drop\$5) same (mask) same differential            | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 14:58 |
| S19 | 98  | 714/790.ccls.                                      | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:42 |
| S20 | 8   | 714/790.ccls. and (differential)                   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:14 |
| S21 | 1   | 714/790.ccls. and (puncture adj mask)              | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:22 |
| S22 | 0   | 714/790.ccls. and (delayed adj puncture adj mask)  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:13 |
| S23 | 0   | 714/790.ccls. and (delay\$5 adj puncture adj mask) | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:13 |
| S24 | 0   | 714/790.ccls. and (delayed adj puncture)           | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:18 |
| S25 | 7   | 714/790.ccls. and "xor"                            | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:25 |
| S26 | 0   | "714"/\$.ccls. and (compressed adj puncture)       | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:32 |
| S27 | 5   | compressed adj puncture                            | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:32 |
| S28 | 8   | puncture adj mask                                  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:33 |
| S29 | 2   | (differential adj encod\$5) and puncture and "xor" | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:35 |
| S30 | 10  | (differential adj encoder) same "XOR"              | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 15:46 |
| S31 | 0   | (puncture adj mask) same compressed                | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:22 |
| S32 | 0   | (puncture adj mask) same compress\$5               | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:23 |
| S33 | 1   | (puncture adj mask) same stor\$5                   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:23 |
| S34 | 11  | (puncture adj pattern) same stor\$5                | US-PGPUB;<br>USPAT | OR | ON | 2003/11/05 16:23 |

|     |      |   |                 |    |    |                  |
|-----|------|---|-----------------|----|----|------------------|
| S35 | 0    | (puncture adj pattern) same stor\$5 same compress\$5            | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:24 |
| S36 | 2    | (puncture adj pattern) same compress\$5                         | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:24 |
| S37 | 14   | 714/790.ccls. and (puncture adj pattern)                        | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:40 |
| S38 | 0    | "714"/\$.ccls. and (puncture adj pattern) same (run adj length) | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:38 |
| S39 | 0    | (puncture adj pattern) same (run adj length)                    | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:38 |
| S40 | 0    | (puncture adj pattern) and (run adj length)                     | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:39 |
| S41 | 2138 | run adj length adj cod\$5                                       | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:39 |
| S42 | 1    | (run adj length adj cod\$5) and puncture                        | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:39 |
| S43 | 0    | compressed adj puncture adj pattern                             | US-PGPUB; USPAT | OR | ON | 2003/11/05 16:40 |
| S44 | 2    | compress\$5 same (puncture adj pattern)                         | US-PGPUB; USPAT | OR | ON | 2003/11/06 09:46 |
| S45 | 1    | (puncture adj pattern) same stor\$5 same memory                 | US-PGPUB; USPAT | OR | ON | 2003/11/06 09:47 |
| S46 | 4    | stor\$5 near8 (puncture adj pattern)                            | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:25 |
| S47 | 1    | "5029331".pn.   | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:24 |
| S48 | 0    | differential near8 (puncture adj pattern)                       | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:25 |
| S49 | 2    | (puncture adj pattern) same compress\$5                         | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:54 |
| S50 | 4    | (puncture adj pattern) same memory                              | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:30 |
| S51 | 539  | run adj length adj decod\$5                                     | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:31 |
| S52 | 3    | (run adj length adj decoder) same differential                  | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:32 |
| S53 | 0    | (run adj length adj decoder) same (puncture adj pattern)        | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:32 |
| S54 | 0    | (run adj length adj decoder) and (puncture adj pattern)         | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:32 |
| S55 | 0    | (run adj length adj decoder) and (puncture adj register)        | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:32 |
| S56 | 0    | (run adj length adj decoder) and (puncture same register)       | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:33 |

|     |       |  |                 |    |    |                  |
|-----|-------|--|-----------------|----|----|------------------|
| S57 | 0     | (run adj length adj decoder) and (puncture)          | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:33 |
| S58 | 247   | run adj length adj decoder                           | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:52 |
| S59 | 242   | (run adj length) and punctur\$5                      | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:34 |
| S60 | 539   | run adj length adj decod\$5                          | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S61 | 0     | (run adj length adj decod\$5) and puncture           | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S62 | 0     | (run adj length adj decod\$5) and depuncture         | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S63 | 31277 | puncture   | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S64 | 0     | puncture adj register                                | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S65 | 1     | puncture adj storage                                 | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:35 |
| S66 | 3     | (puncture adj pattern) with storage                  | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:36 |
| S67 | 3     | (puncture adj pattern) with stored                   | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:38 |
| S68 | 0     | compress\$5 near8 (puncture adj pattern) with stored | US-PGPUB; USPAT | OR | ON | 2005/01/08 13:15 |
| S69 | 0     | compress\$5 near8 (puncture adj pattern)             | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:38 |
| S70 | 1     | reduce\$5 near8 (puncture adj pattern)               | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:39 |
| S71 | 4841  | drop\$5 near5 bits                                   | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:50 |
| S72 | 15    | delet\$5 near5 (last adj bits)                       | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:53 |
| S73 | 10    | (puncture adj pattern) and GSM                       | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:57 |
| S74 | 0     | differential with (puncture adj pattern)             | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:57 |
| S75 | 0     | differential same (puncture adj pattern)             | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:57 |
| S76 | 5     | differential and (puncture adj pattern)              | US-PGPUB; USPAT | OR | ON | 2003/11/06 10:57 |
| S77 | 247   | run adj length adj decoder                           | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:56 |
| S78 | 0     | (run adj length adj decoder) and punctur\$5          | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:52 |

|      |       |   |                 |    |    |                  |
|------|-------|---|-----------------|----|----|------------------|
| S79  | 0     | (run adj length adj decoder) and puncture     | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:53 |
| S80  | 71    | (run adj length adj decoder) and differential | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:53 |
| S81  | 2491  | run adj length adj encod\$5                   | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:56 |
| S82  | 0     | (run adj length adj encod\$5) same punctur\$5 | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:56 |
| S83  | 2     | (run adj length adj encod\$5) and punctur\$5  | US-PGPUB; USPAT | OR | ON | 2003/11/09 09:57 |
| S84  | 19    | compress\$5 and (puncture adj pattern)        | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:03 |
| S85  | 0     | compress\$5 near5 (puncture adj pattern)      | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:03 |
| S86  | 1062  | compress\$5 near5 (mask)                      | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:03 |
| S87  | 0     | (compress\$5 near5 (mask)) and punturing      | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:03 |
| S88  | 7     | (compress\$5 near5 (mask)) and puncturing     | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:04 |
| S89  | 17    | punctur\$5 adj mask                           | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:07 |
| S90  | 1     | "6487251".pn                                  | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:05 |
| S91  | 8     | puncture adj mask                             | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:09 |
| S92  | 4     | differential adj puncture                     | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:09 |
| S93  | 12552 | "XOR" near8puncture                           | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:10 |
| S94  | 2     | "XOR" near8 puncture                          | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:10 |
| S95  | 12    | "XOR" same puncture                           | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:13 |
| S96  | 5     | compressed adj puncture                       | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:13 |
| S97  | 0     | compressed adj puncture adj information       | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:13 |
| S98  | 0     | compress\$5 adj (puncture adj information)    | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:14 |
| S99  | 0     | compress\$5 same (puncture adj information)   | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:14 |
| S100 | 0     | compress\$5 same (puncture adj data)          | US-PGPUB; USPAT | OR | ON | 2003/11/09 10:14 |

|          |    |   |                    |    |    |                  |
|----------|----|---|--------------------|----|----|------------------|
| S10<br>1 | 2  | compress\$5 same (puncture adj pattern)                   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:14 |
| S10<br>2 | 0  | (run adj length) same (puncture adj pattern)              | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:46 |
| S10<br>3 | 1  | (puncture adj pattern) near5 "1000"                       | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:47 |
| S10<br>4 | 0  | (puncture adj pattern) near5 ("1000" adj bits)            | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:47 |
| S10<br>5 | 0  | (puncture adj pattern) near5 (EDGE)                       | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:48 |
| S10<br>6 | 0  | (puncture adj pattern) near5 (enhanced adj data adj rate) | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:48 |
| S10<br>7 | 0  | (puncture adj pattern) same (GSM)                         | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:49 |
| S10<br>8 | 10 | (puncture adj pattern) and (GSM)                          | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:53 |
| S10<br>9 | 1  | "5563897".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:55 |
| S11<br>0 | 2  | delay\$5 near5 (puncture adj pattern)                     | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:57 |
| S11<br>1 | 1  | "5029331".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:56 |
| S11<br>2 | 1  | "5566189".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/09 10:57 |
| S11<br>3 | 3  | ("4675724"   "4939734"   "5029331").PN.                   | USPAT              | OR | ON | 2003/11/09 10:57 |
| S11<br>4 | 5  | "5566189".URPN.   | USPAT              | OR | ON | 2003/11/09 10:57 |
| S11<br>5 | 1  | "5029331".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 09:24 |
| S11<br>6 | 1  | "4939734".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 09:26 |
| S11<br>7 | 1  | "4675724".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 09:27 |
| S11<br>8 | 0  | puncture adj pattern                                      | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 09:27 |
| S11<br>9 | 0  | "714"/\$.ccls. and ((puncture adj pattern) same ("XOR"))  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 09:29 |
| S12<br>0 | 40 | "714"/\$.ccls. and ((puncture adj pattern))               | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:12 |
| S12<br>1 | 0  | 348/1413.ccls. and ((puncture adj pattern))               | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |
| S12<br>2 | 0  | 348/14.13.ccls. and ((puncture adj pattern))              | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |

|          |     |   |                    |    |    |                  |
|----------|-----|---|--------------------|----|----|------------------|
| S12<br>3 | 0   | 348/14.13.ccls. and ((puncture adj mask))                                     | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |
| S12<br>4 | 114 | 348/14.13.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |
| S12<br>5 | 0   | 348/14.13.ccls. and puncture  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |
| S12<br>6 | 0   | 348/14.13.ccls. and punctur\$5  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:13 |
| S12<br>7 | 1   | "714"/\$.ccls. and (differential adj pattern)                                 | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:15 |
| S12<br>8 | 1   | "6385752".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/12 10:42 |
| S12<br>9 | 5   | ("5438590"   "5511082"   "5668820"   "6170076"   "6209116").PN.               | USPAT              | OR | ON | 2003/11/12 10:42 |
| S13<br>0 | 0   | (run adj length adj decoder) same (differential) same (puncture near5 memory) | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:18 |
| S13<br>1 | 0   | (run adj length adj decoder) same (puncture near5 memory)                     | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:19 |
| S13<br>2 | 0   | (run adj length adj decoder) same (puncture)                                  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:19 |
| S13<br>3 | 0   | (run adj length adj decod\$5) same (puncture)                                 | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:19 |
| S13<br>4 | 539 | run adj length adj decod\$5   | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:20 |
| S13<br>5 | 247 | run adj length adj decoder  | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:24 |
| S13<br>6 | 221 | run adj length adj decoder  | USPAT              | OR | ON | 2003/11/13 14:22 |
| S13<br>7 | 3   | (run adj length adj decoder) same differential                                | USPAT              | OR | ON | 2003/11/13 14:21 |
| S13<br>8 | 0   | (run adj length adj decoder) same differential same puncture                  | USPAT              | OR | ON | 2003/11/13 14:22 |
| S13<br>9 | 0   | (run adj length adj decoder) same puncture                                    | USPAT              | OR | ON | 2003/11/13 14:22 |
| S14<br>0 | 0   | (run adj length adj decoder) and puncturer                                    | USPAT              | OR | ON | 2003/11/13 14:22 |
| S14<br>1 | 0   | (run adj length adj decoder) and puncture                                     | USPAT              | OR | ON | 2003/11/13 14:22 |
| S14<br>2 | 134 | (run adj length adj decoder) and pattern                                      | USPAT              | OR | ON | 2003/11/13 14:22 |
| S14<br>3 | 0   | "348"/\$.ccls and (run adj length adj decoder)                                | US-PGPUB;<br>USPAT | OR | ON | 2003/11/13 14:25 |
| S14<br>4 | 0   | "714"/\$.ccls. and (differential adj puncture adj mask)                       | US-PGPUB;<br>USPAT | OR | ON | 2004/05/11 17:02 |

|          |     |   |                    |    |    |                  |
|----------|-----|---|--------------------|----|----|------------------|
| S14<br>5 | 0   | "714"/\$.ccls. and (differential adj<br>puncture)                   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/11 17:03 |
| S14<br>6 | 5   | "714"/\$.ccls. and (puncture adj<br>mask)                           | US-PGPUB;<br>USPAT | OR | ON | 2004/05/11 17:04 |
| S14<br>7 | 10  | puncture adj mask   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/11 17:06 |
| S14<br>8 | 96  | puncture adj pattern  | US-PGPUB;<br>USPAT | OR | ON | 2004/05/11 17:06 |
| S14<br>9 | 120 | 714/790.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/12 09:51 |
| S15<br>0 | 1   | "6614850".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/12 09:51 |
| S15<br>1 | 1   | "6385752".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/12 09:51 |
| S15<br>2 | 3   | 714/790.ccls. and (stor\$5 adj<br>puncture\$3)                      | US-PGPUB;<br>USPAT | OR | ON | 2004/05/13 15:55 |
| S15<br>3 | 0   | 714/790.ccls. and (compress\$5 adj<br>puncture\$3)                  | US-PGPUB;<br>USPAT | OR | ON | 2004/05/13 15:55 |
| S15<br>4 | 1   | 714/790.ccls. and (compress\$5<br>near3 puncture\$3)                | US-PGPUB;<br>USPAT | OR | ON | 2004/05/13 16:41 |
| S15<br>5 | 2   | ("4730348"   "5438590").PN.   | USPAT              | OR | ON | 2004/05/13 16:40 |
| S15<br>6 | 1   | 714/790.ccls. and (compress\$5 with<br>puncture\$3)                 | US-PGPUB;<br>USPAT | OR | ON | 2004/05/13 16:42 |
| S15<br>7 | 8   | "714"/\$.ccls. and (compress\$5 with<br>puncture\$3)                | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 09:49 |
| S15<br>8 | 1   | (compress\$5) with (puncture\$3 adj<br>pattern)                     | US-PGPUB;<br>USPAT | OR | ON | 2004/05/13 16:43 |
| S15<br>9 | 1   | "5511082".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 09:46 |
| S16<br>0 | 1   | "5668820".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 09:46 |
| S16<br>1 | 0   | "714"/\$.ccls. and (sto\$5 near5<br>(compress\$5 with puncture\$3)) | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 09:50 |
| S16<br>2 | 5   | "714"/\$.ccls. and (sto\$5 near5<br>(puncture\$3 adj pattern))      | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 10:11 |
| S16<br>3 | 1   | "714"/\$.ccls. and (compress\$5<br>same (puncture\$3 adj pattern))  | US-PGPUB;<br>USPAT | OR | ON | 2004/05/14 10:11 |
| S16<br>4 | 1   | "5548616".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/17 09:43 |
| S16<br>5 | 1   | "5847619".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2004/05/17 09:43 |
| S16<br>6 | 7   | 714/790.ccls. and "XOR"   | US-PGPUB;<br>USPAT | OR | ON | 2005/01/04 10:00 |

|          |     |   |                    |    |    |                  |
|----------|-----|---|--------------------|----|----|------------------|
| S16<br>7 | 0   | 714/790.ccls. and (stor\$5 near5 (punctur\$4 adj mask\$5))                  | US-PGPUB;<br>USPAT | OR | ON | 2005/01/04 10:01 |
| S16<br>8 | 1   | 714/790.ccls. and (stor\$5 same (punctur\$4 adj mask\$5))                   | US-PGPUB;<br>USPAT | OR | ON | 2005/01/04 10:02 |
| S16<br>9 | 131 | 714/790.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2005/01/04 10:28 |
| S17<br>3 | 0   | "714"/\$.ccls. and ((puncture adj pattern) same (run adj length))           | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:40 |
| S17<br>4 | 0   | "714"/\$.ccls. and ((puncture adj pattern) and (run adj length))            | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:40 |
| S17<br>5 | 0   | "714"/\$.ccls. and ((puncture adj mask) and (run adj length))               | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:41 |
| S17<br>6 | 52  | "714"/\$.ccls. and (run adj length adj encod\$5)                            | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:42 |
| S17<br>7 | 0   | "714"/\$.ccls. and (puncture) and (run adj length adj encod\$5)             | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:42 |
| S17<br>8 | 1   | "714"/\$.ccls. and (punctur\$5) and (run adj length adj encod\$5)           | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:44 |
| S17<br>9 | 3   | (punctur\$5) and (run adj length adj encod\$5)                              | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 11:44 |
| S18<br>0 | 57  | "714"/\$.ccls. and (puncture adj pattern)                                   | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:23 |
| S18<br>1 | 13  | "714"/\$.ccls. and ((puncture adj pattern) same (stor\$5))                  | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:21 |
| S18<br>2 | 2   | "714"/\$.ccls. and ((compress\$5 near punctur\$5))                          | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:22 |
| S18<br>3 | 115 | "714"/\$.ccls. and (encod\$5 adj punctur\$5)                                | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:28 |
| S18<br>4 | 77  | "714"/\$.ccls. and (encod\$5) with (punctur\$5 adj pattern)                 | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:32 |
| S18<br>5 | 0   | "714"/\$.ccls. and ((punctur\$5 adj pattern) with stor\$5 with compress\$5) | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:32 |
| S18<br>6 | 0   | "714"/\$.ccls. and ((punctur\$5 adj pattern) with compress\$5)              | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:32 |
| S18<br>7 | 2   | ((punctur\$5 adj pattern) with compress\$5)                                 | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:33 |
| S18<br>8 | 2   | compress\$5 with ((punctur\$5 adj pattern))                                 | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:34 |
| S18<br>9 | 5   | compress\$5 same ((punctur\$5 adj pattern))                                 | US-PGPUB;<br>USPAT | OR | ON | 2005/01/06 13:34 |
| S19<br>0 | 31  | stor\$5 with ((punctur\$5 adj pattern))                                     | US-PGPUB;<br>USPAT | OR | ON | 2005/01/07 17:51 |
| S19<br>1 | 1   | "6718170".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2005/01/07 17:59 |

|          |   |               |                    |    |    |                  |
|----------|---|---------------|--------------------|----|----|------------------|
| S19<br>2 | 1 | "6320849".pn. | US-PGPUB;<br>USPAT | OR | ON | 2005/01/07 17:59 |
|----------|---|---------------|--------------------|----|----|------------------|


**PALM INTRANET**

Day : Saturday  
Date: 1/8/2005  
Time: 16:30:20

**Inventor Name Search Result**

Your Search was:

Last Name = SHOHARA

First Name = AKI

| Application#    | Patent#    | Status | Date Filed | Title   | Inventor Name 22 |
|-----------------|------------|--------|------------|---|------------------|
| <u>60478922</u> | Not Issued | 159    | 06/16/2003 | EDGE INCREMENTAL REDUNDANCY SUPPORT IN A CELLULAR WIRELESS TERMINAL | SHOHARA, AKI     |
| <u>60431940</u> | Not Issued | 159    | 12/09/2002 | EDGE INCREMENTAL REDUNDANCY SUPPORT IN A CELLULAR WIRELESS TERMINAL | SHOHARA, AKI     |
| <u>60147821</u> | Not Issued | 159    | 08/10/1999 | RADIO FREQUENCY CONTROL FOR COMMUNICATION SYSTEMS                   | SHOHARA , AKI    |
| <u>60147508</u> | Not Issued | 159    | 08/09/1999 | TIME TRACKER AND CHANNEL ESTIMATOR FOR COMMUNICATION IN MULTIPATH   | SHOHARA , AKI    |
| <u>60147507</u> | Not Issued | 159    | 08/09/1999 | FREQUENCY TRACKING AND COMPENSATION FOR COMMUNICATION SYSTEMS       | SHOHARA , AKI    |
| <u>60147506</u> | Not Issued | 159    | 08/09/1999 | SOFT DECISION MAXIMUM LIKELIHOOD EQUALIZER                          | SHOHARA , AKI    |
| <u>60087637</u> | Not Issued | 159    | 06/02/1998 | SOFT DECISION MAXIMUM LIKELIHOOD EQUALIZER                          | SHOHARA , AKI    |
| <u>60087450</u> | Not Issued | 159    | 06/01/1998 | TIME TRACKER AND CHANNEL ESTIMATOR FOR COMMUNICATION IN MULTIPATH   | SHOHARA , AKI    |
| <u>60087402</u> | Not Issued | 159    | 06/01/1998 | COMMUNICATION DEVICE WITH A SELF-CALIBRATING SLEEP TIMER            | SHOHARA , AKI    |
| <u>60087399</u> | Not Issued | 159    | 06/01/1998 | FREQUENCY TRACKING AND COMPENSATION FOR COMMUNICATION SYSTEMS       | SHOHARA , AKI    |

|                 |                |     |            |  |               |
|-----------------|----------------|-----|------------|--|---------------|
| <u>10968449</u> | Not<br>Issued  | 020 | 10/19/2004 | RADIO FREQUENCY<br>CONTROL FOR<br>COMMUNICATION SYSTEMS  | SHOHARA, AKI  |
| <u>10940191</u> | Not<br>Issued  | 020 | 09/14/2004 | COMMUNICATION DEVICE<br>WITH A SELF-CALIBRATING<br>SLEEP TIMER   | SHOHARA, AKI  |
| <u>10731803</u> | Not<br>Issued  | 030 | 12/09/2003 | EDGE INCREMENTAL<br>REDUNDANCY SUPPORT IN A<br>CELLULAR WIRELESS<br>TERMINAL   | SHOHARA, AKI  |
| <u>10272439</u> | <u>6804503</u> | 150 | 10/15/2002 | COMMUNICATION DEVICE<br>WITH A SELF-CALIBRATING<br>SLEEP TIMER   | SHOHARA, AKI  |
| <u>10266083</u> | <u>6816716</u> | 150 | 10/07/2002 | RADIO FREQUENCY<br>CONTROL FOR<br>COMMUNICATION SYSTEMS  | SHOHARA, AKI  |
| <u>09711965</u> | <u>6415131</u> | 150 | 11/15/2000 | DMA CELLULAR RADIO<br>SYSTEM WITH A CHANNEL<br>QUALITY CRITERION   | SHOHARA, AKI  |
| <u>09640963</u> | Not<br>Issued  | 071 | 08/16/2000 | CODE PUNCTURING<br>METHOD AND APPARATUS  | SHOHARA, AKI  |
| <u>09477720</u> | <u>6463266</u> | 150 | 01/05/2000 | RADIO FREQUENCY<br>CONTROL FOR<br>COMMUNICATIONS<br>SYSTEMS  | SHOHARA, AKI  |
| <u>09302447</u> | <u>6473607</u> | 150 | 04/30/1999 | COMMUNICATION DEVICE<br>WITH A SELF-CALIBRATING<br>SLEEP TIMER   | SHOHARA , AKI |
| <u>08662772</u> | <u>5886989</u> | 150 | 06/10/1996 | SYSTEM FOR THE DELIVERY<br>OF WIRELESS BROADBAND<br>INTEGRATED SERVICES<br>DIGITAL NETWORK (ISDN)<br>USING ASYNCHRONOUS<br>TRANSFER MODE (ATM) | SHOHARA , AKI |
| <u>08600212</u> | <u>6151312</u> | 250 | 02/12/1996 | NETWORK PROTOCOL FOR<br>WIRELESS BROADBAND-<br>ISDN USING ATM  | SHOHARA , AKI |
| <u>08570439</u> | <u>6301482</u> | 150 | 12/11/1995 | DMA CELLULAR RADIO<br>SYSTEM WITH A CHANNEL<br>QUALITY CRITERION   | SHOHARA , AKI |

Inventor Search Completed: No Records to Display.

|                                 | Last Name                            | First Name                       |                                       |
|---------------------------------|--------------------------------------|----------------------------------|---------------------------------------|
| <b>Search Another: Inventor</b> | <input type="text" value="SHOHARA"/> | <input type="text" value="AKI"/> | <input type="button" value="Search"/> |

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)